



**Kansas City Power & Light Company
Electric Generation and Emissions in 2010**

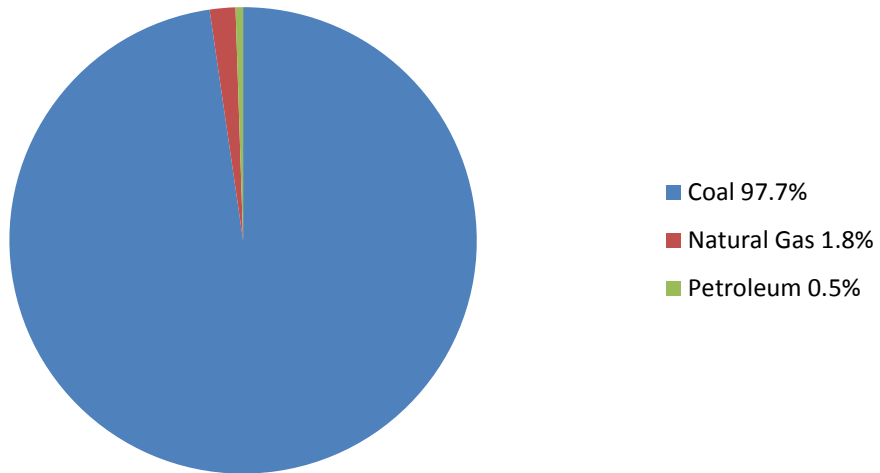
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal	139,288,958	97.8%	97.8%	13,535,054	97.7%	97.7%
Natural Gas	2,270,380	1.6%	1.6%	246,279	1.8%	1.8%
Petroleum	800,658	0.6%	0.6%	71,604	0.5%	0.5%
Nuclear						
Other						
Non-renewable total	142,359,996	100.0%	100.0%	13,852,937	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	142,359,996		100.0%	13,852,937		100.0%

Fuel Type	Physical Units	Number of Units
Sub-bituminous Coal	Short Tons	8,139,199
Natural Gas	MCf	2,270,380
Distillate Fuel Oil	Barrels	139,026



Net Generation by Fuel Type, 2010 for Kansas City Power & Light Company





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Power Plant Nameplate information for Kansas City Power & Light Company

Plant Name	County Location	Nameplate Capacity (MW)
<i>Kansas City Power & Light Company</i>		<i>15,044.4</i>
Hawthorn	Jackson	4,284.4
Montrose	Henry	2,256.0
Northeast	Jackson	1,944.0
Iatan	Platte	6,560.0



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Emissions from Electricity Generated in 2010: Kansas City Power & Light Company

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
<i>Kansas City Power & Light Company</i>	508,267,797	60,375,011	6,776,344	985,773
Hawthorn	140,848,486	16,990,464	1,876,190	272,445
Iatan	241,616,791	28,544,098	3,221,843	469,077
Montrose	125,752,233	14,829,018	1,677,844	244,156
Northeast	50,288	11,431	468	94

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
<i>Kansas City Power & Light Company</i>	100,829	0.0014	0.0012
Hawthorn	28,566	0.0009	0.0009
Iatan	47,227	0.0005	0.0003
Montrose	25,036	0.0000	0.0000
Northeast	0	0.0000	0.0000



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Identified Flue Gas Desulfurization (FGD) controls installed on plants operated by Kansas City Power & Light Company

Plant	Control Equipment	Sorbent Type
Hawthorn	Spray dryer type	Lime and alkaline fly ash
Iatan	Spray dryer type	Not Specified

Identified Flue Gas Particulate (FGP) controls installed on plants operated by Kansas City Power & Light Company

Plant	Control Equipment
Hawthorn	Baghouse, pulse
Montrose	Electrostatic precipitator, cold side, with flue gas conditioning
Iatan	Electrostatic precipitator, cold side, without flue gas conditioning
Iatan	Baghouse, pulse

Notes:

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>